## What is claimed is:

- 1. A manufacturing method for an electronic device,
- 2 comprising:
- a hole-forming step of forming a contact hole in an
- 4 insulating film that covers a conductive part formed on a first
- 5 main surface of a substrate and an area surrounding the conductive
- 6 part, the hole being formed beside the conductive part, and the
- 7 conductive part including a first material;
- 8 a material-supplying step of supplying a second material
- 9 to the contact hole, the second material having a reactive
- 10 property with the first material; and
- an inspection step, after the second material has been
- 12 supplied, of inspecting for evidence of a reaction by the
- 13 conductive part with the second material.
  - 1 2. The manufacturing method of Claim 1, wherein
  - 2 the reactive property of the second material causes the
- 3 conductive part to be eroded on contact with the second material,
- 4 and
- in the inspection step, evidence that the conductive part
- 6 has been eroded is inspected for.
- 1 3. The manufacturing method of Claim 2, wherein

- in the inspection step, evidence of erosion is inspected
- 3 for optically.
- 1 4. The manufacturing method of Claim 3, wherein
- in the inspection step, evidence of erosion is inspected
- 3 for after removing the second material from the contact hole.
- 5. The manufacturing method of Claim 4, wherein
- 2 the first material is one of tungsten and a tungsten alloy,
- 3 and
- 4 the second material is a solution including one of hydrogen
- 5 peroxide and ozone.
- 1 6. The manufacturing method of Claim 5, wherein
- in the material-supplying step, the solution is supplied
- 3 to the contact hole under a condition by which the solution is
- 4 able to selectively erode the conductive part.
- 1 7. The manufacturing method of Claim 1, wherein
- 2 the electronic device is a memory device that includes
- 3 a plurality of components that function as field effect
- 4 transistors, and
- 5 the conductive part is a function electrode that is formed
- 6 before the hole-forming step by applying a design rule that

- 7 stipulates an electrode width of 0.18µm or less.
- 1 8. The manufacturing method of Claim 3, wherein
- 2 the conductive part includes a large-area portion that
- 3 is sufficient in size to enable inspection thereof with an optical
- 4 microscope for evidence of the reaction, and
- in the inspection step, evidence of the reaction in the
- 6 large-area portion is inspected for.
- 9. The manufacturing method of Claim 2, wherein
- 2 in the inspection step, after a material including at least
- 3 the second material has been removed, presence of at least one
- 4 of the first material and a compound of the first material and
- 5 the second material is inspected for in the removed material.
- 1 10. The manufacturing method of Claim 1, wherein
- 2 the substrate has a pre-formed inspection area that is
- 3 independent of other circuits areas,
- in the material-supplying step a contact hole formed in
- 5 the inspection area is subject to the inspection, and
- in the inspection step, a conductive part formed in the
- 7 inspection area is subject to the inspection.
- 1 11. The manufacturing method of Claim 1, wherein

- in the hole forming step, the contact hole is formed using
- 3 a self-align contact method.
- 1 12. The manufacturing method of Claim 11, wherein
- a silicon nitride film is provided on the substrate as
- 3 an etching stopper layer in the hole forming step.
- 1 13. The manufacturing method of Claim 12, wherein
- the insulating film is formed of boron phosphorus silicon
- 3 glass, and
- 4 the first material has an etching selectivity ratio of
- 5 100 or higher in relation to material that composes the etching
- 6 stopper layer and material that composes the insulating film.
- 1 14. An electronic device, comprising:
- a substrate on which a plurality of circuit areas are
- 3 formed; and
- 4 an insulating layer formed on a first main surface of the
- 5 substrate,
- 6 wherein at least one of the circuit areas is an inspection
- 7 area that is independent of other circuits areas, and includes
- 8 a conductive part and a contact hole, the conductive part being
- 9 formed in the insulating film, and the contact hole neighboring
- 10 a periphery of the conductive part.

- 1 15. The electronic device of Claim 14, wherein
- 2 the conductive part includes a large-area portion that
- 3 is inspected using an optical microscope.
- 1 16. The electronic device of Claim 15, wherein
- 2 the inspection area is formed in a scribe area that is
- 3 used as a cutting margin when cutting the other circuit areas
- 4 from the substrate.
- 1 17. The electronic device of Claim 16, wherein
- 2 the conductive part is composed of a material that has
- 3 an etching selectivity ratio of 100 or higher in relation to
- 4 a material that composes the insulating film.